

SAFETY DATA SHEET

WOLFRAMELEKTROD WC20 203342209

Last changed: 14/06/2012

Internal No: 203342209

1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name / designation WOLFRAMELEKTROD WC20 203342209

1.2 Relevant identified uses of the substance or mixture and uses advised against

1.3 Details of the supplier of the safety data sheet

NATIONAL MANUFACTURER/IMPORTER

Enterprise Luna Verktyg & Maskin AB
Postal code 441 80 Alingsås
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CONTACT PERSONS

| Name | E-mail | Telephone | Country |
|---------------|--------|-----------|---------|
| Mikael Olsson | | | |

2 Hazards identification

2.1 Classification of the substance or mixture

DPD Classification:

CLP Classification:

Most important HSE hazard effects:

2.2 Label elements

Signal word: None

EC-Label: No

COMPOSITION

Ceriumoxid (1 - 3 %), Wolfram (90 - 100 %)

2.3 Other hazards

3 Composition/information on ingredients

3.2 Mixtures

| Ingredient name | Reg.No | EC No. | CAS No. | Conc. (wt%) | DPD-Classification | CLP-classification |
|-----------------|--------|-----------|-----------|-------------|--------------------|--------------------|
| Ceriumoxid | | 215-150-4 | 1306-38-3 | 1 - 3 % | | |
| Wolfram | | | 7440-33-7 | 90 - 100 % | R67 | STOT SE 3 H336 |

Full text of R-, H- and EUH-phrases: see section 16.

The EUH hazard statements mentioned in CLP-classification are only label elements.

4 First aid measures

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4.1 Description of first aid measures

INHALATION

Move the exposed person to fresh air at once.

INGESTION

Rinse the mouth with water. Contact physician if larger quantity has been consumed.

SKIN CONTACT

Wash skin with soap and water. In the event of burn injury: Cool immediately with large quantities of water. Contact physician.

EYE CONTACT

Rinse thoroughly with water until the irritation subsides. Get medical attention if any discomfort continues.

GENERAL

Do not induce vomiting or give anything by mouth to an unconscious person. Get medical attention if any discomfort continues. Show this safety data sheet, if possible. Keep the injured person warm and relaxed.

4.2 Most important symptoms and effects, both acute and delayed

4.3 Indication of any immediate medical attention and special treatment needed

5 Fire-fighting measures

5.1 Extinguishing media

SUITABLE EXTINGUISHING MEDIA:

Extinguishing agent: cement or dry sand. Salt

UNSUITABLE EXTINGUISHING MEDIA

Do not use water.

EXTINGUISHING METHODS

Use a respirator and other protective equipment.

5.2 Special hazards arising from the substance or mixture

SPECIAL HAZARDS

Note the risk of dust explosion. High concentrations of dust may form explosive mixture with air.

5.3 Advice for fire-fighters

OTHER INFORMATION

Vapours that are harmful to health are formed on heating.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

PERSONAL PRECAUTIONS

Use personal protective equipment.

6.2 Environmental precautions

ENVIRONMENTAL PRECAUTIONS

Prevent the spillage from reaching watercourses or the sewage system and contaminating the soil and vegetation. Inform the emergency service in the event of major spillage.

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6.3 Methods and material for containment and cleaning up

METHODS AND MATERIAL

Smaller spill: Flush with plenty of water to clean spillage area. Major spillage should be banked with sand, earth or other inert absorption material and collected.

6.4 Reference to other sections

7 Handling and Storage

7.1 Precautions for safe handling

PRECAUTION FOR SAFE HANDLING

Use only in well-ventilated areas. If necessary, boosted ventilation, e.g. local extraction.

7.2 Conditions for safe storage, including any incompatibilities

CONDITION FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Keep in a cool place. Store dry.

7.3 Specific end uses

8 Exposure controls / Personal protection

8.1 Control parameters

8.2 Exposure controls

APPROPRIATE ENGINEERING CONTROLS

Use welding gloves, helmet with visor and filter glass or face mask with filter glass.

EYE PROTECTION

Use eye protection.

SKIN PROTECTION

Use suitable protective clothing, as necessary. Wash skin with soap and water. Use appropriate hand lotion to prevent defatting and cracking of skin.

HAND PROTECTION

Use protective gloves. Wash skin with soap and water.

RESPIRATORY PROTECTION

In case of insufficient ventilation, wear suitable respiratory equipment.

9 Physical and chemical Properties

9.1 Information on basic physical and chemical properties

PHYSICAL STATE Rods.

COLOUR Grey.

ODOUR Odourless.

SOLUBILITY Insoluble in water.

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| Parameter | Value/unit | Method/reference | Observation |
|---|------------|------------------|-------------|
| pH concentrate | No data | | |
| pH in solution | No data | | |
| Melting point | ~ 3400 °C | | |
| Freezing point | No data | | |
| Initial boiling point and boiling range | ~ 5900 °C | | |
| Flash point | No data | | |
| Evaporation rate | No data | | |
| Flammability (solid, gas) | No data | | |
| Flammability limits | No data | | |
| Explosion limits | No data | | |
| Vapour pressure | No data | | |
| Vapour density | No data | | |
| Relative density | No data | | |
| Partition coefficient | No data | | |
| Auto-ignition temprature | No data | | |
| Decomposition temprature | No data | | |
| Viscosity | No data | | |

9.2 Other safety information

| Parameter | Value/unit | Method/reference | Observation |
|-----------|-----------------------------|------------------|-------------|
| Density | 19 - 19,1 g/cm ³ | 20°C | |

| Note no. | Comments |
|----------|----------|
| | |

10 Stability and Reactivity

10.1 Reactivity

10.2 Chemical stability

CHEMICAL STABILITY

Stable under recommended storage and handling conditions.

10.3 Possibility of hazardous reactions

10.4 Conditions to avoid

CONDITIONS TO AVOID

Avoid dust formation.

10.5 Incompatible materials

10.6 Hazardous decomposition products:

11 Toxicological information

11.1 Toxicological effects

ACUTE TOXICITY - DERMAL

Avoid dust formation. May be irritating.

ACUTE TOXICITY - INHALATION

Avoid dust formation. May irritate the respiratory organs. When welding, smoke and gases may be formed that are harmful to health.

SERIOUS EYE DAMAGE/IRRITATION

Avoid dust formation. May be irritating to eyes.

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12 Ecological information

12.1 Toxicity

12.2 Persistence and degradability

12.3 Bioaccumulative potential

12.4 Mobility in soil

12.5 Results of PBT and vPvB assessment

12.6 Other adverse effects

OTHER INFORMATION

Insoluble in water. Not degradable. Must not be discharged into the sewage system.

13 Disposal considerations

13.1 Waste treatment methods

GENERAL REGULATIONS

Can be dumped as landfill or incinerated in accordance with local regulations.

CATEGORY OF WASTE

EWC-kod 20 01 4

14 Transport information

Classified as Dangerous Goods: **No**

Land transport (ADR/RID)

| | | | |
|----------------------------------|-----------------|-----------------------------------|-----------------|
| 14.1 UN-No. | Not applicable. | 14.4 Packing group | Not applicable. |
| 14.2 Proper Shipping Name | Not applicable. | 14.5 Environmental hazards | Not applicable. |
| 14.3 Class(es) | Not applicable. | | |
| Hazard label(s) | Not applicable. | | |
| Hazard ID: | Not applicable. | Tunnel restriction code | Not applicable. |

Inland water ways transport (ADN)

| | | | |
|--|-----------------|-----------------------------------|-----------------|
| 14.1 UN-No. | Not applicable. | 14.4 Packing group | Not applicable. |
| 14.2 Proper Shipping Name | Not applicable. | 14.5 Environmental hazards | Not applicable. |
| 14.3 Class(es) | Not applicable. | | |
| Environmentally hazardous in tank-vessels | Not applicable. | | |

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Sea transport (IMDG)

| | | | |
|------------------------------------|-----------------|-----------------------------------|-----------------|
| 14.1 UN-No. | Not applicable. | 14.4 Packing group | Not applicable. |
| 14.2 Proper Shipping Name | Not applicable. | 14.5 Environmental hazards | Not applicable. |
| 14.3 Class(es) | Not applicable. | | |
| Sub Risk: | Not applicable. | | |
| IMDG Code segregation group | Not applicable. | | |
| Marine pollutant | Not applicable. | | |
| EMS: | Not applicable. | | |

Air transport (ICAO-TI / IATA-DGR)

| | | | |
|----------------------------------|-----------------|-----------------------------------|-----------------|
| 14.1 UN-No. | Not applicable. | 14.4 Packing group | Not applicable. |
| 14.2 Proper Shipping Name | Not applicable. | 14.5 Environmental hazards | Not applicable. |
| 14.3 Class(es) | Not applicable. | | |
| Hazard label(s) | Not applicable. | | |

15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

15.2 Chemical Safety Assessment

16 Other information

LIST OF RELEVANT R-PHRASES

R67 Vapours may cause drowsiness and dizziness.

LIST OF RELEVANT H-STATEMENTS

H336 May cause drowsiness or dizziness.